



## Lahoma Wheat Variety Trial Standard vs. Intensive Management Comparison

wheat.okstate.edu

Cooperator: OSU North Central Research Station  
 Planting & harvest dates: 10/27/2022 & 06/15/2023  
 Management: Grain-only, conventional tillage  
 Seeding rate: 1.2 million seeds/acre  
 Nitrogen: 6 lbs/ac 10-34-0 at planting, 96 lbs/ac on 8/11/22, 50 lbs/ac 3/15/23  
 Fungicide: 2.9 fl oz/ac Tebucure 3.6 at jointing on 3/22/23 and 6.5 fl oz/ac Trivapro at flag leaf-boot stage on 4/14/23

Extension Educator: Rick Nelson  
 Previous crop: Austrian winter peas  
 Soil Type: Pond Creek silt loam  
 Soil test: pH=5.2, N= 146, P= 111, K= 352

Licensee	Variety	Grain Yield			Test Weight			Wheat Protein		
		Standard	Intensive	Diff	Standard	Intensive	Diff	Standard	Intensive	Diff
		----- bu/ac -----			----- lb/bu -----			----- % -----		
KWA	KS Providence	77	85	8	59.8	59.6	-0.2	15.0	14.8	-0.2
AGSECO	AG Radical	73	75	2	59.2	59.4	0.2	15.0	15.7	0.7
AgriPro	Bob Dole	72	77	5	59.9	60.3	0.4	15.4	16.0	0.6
Westbred	WB4632	72	82	10	60.2	60.0	-0.2	14.1	14.2	0.1
PlainsGold	Kivari AX	71	79	8	60.9	60.6	-0.3	13.6	14.7	1.1
AgriPro	AP Prolific	71	82	11	59.8	59.6	-0.2	14.9	15.0	0.1
PlainsGold	Breck	70	81	11	61.4	61.0	-0.4	14.7	15.2	0.5
PlainsGold	Canvas	70	83	13	61.2	60.6	-0.6	14.4	14.8	0.4
PlainsGold	Crescent AX	70	77	7	59.8	59.2	-0.6	14.4	14.9	0.5
LCS	LCS Helix AX	69	74	5	58.9	60.1	1.2	14.2	14.8	0.6
Croplan	CP7266AX	69	75	6	60.2	59.5	-0.7	14.7	15.1	0.4
Westbred	WB4422	69	79	10	61.1	60.9	-0.2	15.4	16.3	0.9
OGI	Big Country	68	78	10	59.7	59.7	0.0	15.4	15.8	0.4
LCS	LCS Julep	68	78	10	62.4	61.2	-1.2	15.5	15.8	0.3
AgriPro	SY Wolverine	68	77	9	59.7	59.6	-0.1	15.7	15.6	-0.2
AGSECO	AG Golden	67	76	9	59.5	59.5	0.0	13.4	13.4	0.0
OGI	Showdown	67	82	15	59.6	59.9	0.3	14.7	14.9	0.2
OGI	Green Hammer	67	80	13	60.9	60.2	-0.7	16.9	16.8	-0.1
LCS	LCS Galloway AX	67	81	14	60.0	60.2	0.2	15.4	15.5	0.1
OGI	Gallagher	66	85	19	60.5	60.6	0.1	14.7	14.7	0.0
LCS	LCS Atomic AX	66	73	7	58.7	59.5	0.8	13.9	15.4	1.5
KWA	KS Ahearn	65	79	14	59.1	60.2	1.1	15.2	15.6	0.4
LCS	LCS Chrome	65	73	8	60.8	60.1	-0.7	15.6	15.6	0.0
AgriMAXX	AM Cartwright	64	76	12	59.6	59.5	-0.1	15.1	14.9	-0.2
Croplan	CP7017AX	63	74	11	59.4	58.7	-0.7	14.5	15.1	0.6
Westbred	WB4401	63	76	13	59.2	58.6	-0.6	14.3	14.5	0.2
AgriPro	AP Longjack	63	74	11	58.1	59.1	1.0	15.6	15.3	-0.3
OGI	Iba	62	76	14	60.3	60.1	-0.2	13.9	13.7	-0.2
LCS	LCS Steel AX	62	67	5	59.9	59.0	-0.9	15.0	15.6	0.6
OGI	High Cotton	61	74	13	60.5	60.0	-0.5	14.7	14.8	0.1
OGI	Bentley	60	75	15	59.5	59.5	0.0	15.4	15.4	0.0
OGI	OK Corral	60	82	22	57.5	58.8	1.3	15.0	15.1	0.1
AgriPro	AP EverRock	59	66	7	59.2	59.5	0.3	15.9	16.8	0.9
OGI	Doublestop CL+	59	75	16	61.5	60.9	-0.6	16.8	17.0	0.2
AgriPro	AP Bigfoot	59	69	10	59.5	59.7	0.2	15.2	15.3	0.1
OGI	Smith's Gold	59	70	11	60.5	60.1	-0.4	15.4	15.4	0.0
Westbred	WB4523	59	66	7	59.1	57.9	-1.2	13.7	14.7	1.0
OGI	Baker's Ann	58	69	11	58.9	59.7	0.8	15.3	15.4	0.1
LCS	LCS Photon AX	58	69	11	59.9	60.0	0.1	15.7	15.9	0.2
Westbred	WB4792	57	62	5	62.9	61.2	-1.7	15.1	15.2	0.1
OGI	Butler's Gold	55	64	9	58.9	59.7	0.8	16.8	17.7	0.9
OGI	Strad CL+	55	71	16	59.8	60.7	0.9	17.1	16.5	-0.6
OGI	Uncharted	51	65	14	59.4	59.3	-0.1	15.8	15.5	-0.3
OGI	Butler's Gold (late-planted)	31	35	4	57.6	58.5	0.9	19.2	19.4	0.2
<b>Experimentals</b>										
OSU	OK15MASBx7 ARS 8-29	69	83	14	60.5	61.1	0.6	14.5	14.2	-0.3
OSU	OK15DMSBx7 ARS 6-8	60	75	15	61.2	60.7	-0.5	15.5	15.2	-0.3
OSU	OK16107133-19-3	60	64	4	60.6	60.0	-0.6	16.4	16.6	0.2
<b>Mean</b>		<b>64</b>	<b>74</b>	<b>10</b>	<b>59.9</b>	<b>59.9</b>	<b>0.0</b>	<b>15.2</b>	<b>15.4</b>	<b>0.2</b>
<b>LSD (0.05)</b>		<b>6</b>	<b>10</b>	<b>--</b>	<b>1.0</b>	<b>0.9</b>	<b>--</b>	<b>0.6</b>	<b>0.5</b>	<b>--</b>

**Notes:** Grain yield and protein concentration were adjusted to 12% moisture content. Shaded values were not statistically different from the highest value within a column. The crop experienced drought stress during the season and received rain later in the spring, which enhanced realized yield in this particular environment relative to the statewide yield average. Septoria fungal disease was observed at moderate pressure and leaf rust appeared later in the season at low pressure. This is the second year to conduct an intensive management (IM) trial at Lahoma. Due to this addition and the use of a different experimental design, data from the 2021 harvest year were not utilized to provide 3-year averages. Butler's Gold late-planted was planted on 12/5/2022 at 1.4 million seeds/acre. Double-dashes"--" = data not available.